

**STATE OF HAWAII**

**TITLE 12 DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS**

**SUBTITLE 8**

**DIVISION OF OCCUPATIONAL SAFETY AND HEALTH**

**PART 10 BOILER AND PRESSURE VESSEL**

**CHAPTER 220**

**GENERAL, ADMINISTRATIVE, AND LEGAL PROVISIONS**

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**Historical Note:** Chapter 220 of title 12 is based on chapter 377 of the Hawaii Occupational Safety and Health Standards, Rules and Regulations. [Eff 7/11/74; am 12/30/76; am 8/22/77; am 8/1/78; R 12/6/82]

**§12-220-1 Definitions.** As used in this part:

"A.I." means Authorized Inspector as defined in the National Board Rules & Regulations 1994 Section 3.5.

"A.I.A." means Authorized Inspection Agency as defined in the National Board Rules & Regulations 1995 Section 3.2.

"Alteration" means a change in any item described on the original Manufacturer's Data Report or specification other than maintenance, repair, or replacement; additional mechanical tests are required.

"ANSI" means the American National Standards Institute.

"ASME B31.1" means ASME B31.1-1998, Power Piping.

"ASME PVHO 1" means ASME PVHO 1-1993, Safety Standard for Pressure Vessels for Human Occupancy and PVHO-1C-1996 Addenda.

"Appeals board" means the labor and industrial relations appeals board, department of labor and industrial relations.

"Application" means a written request for approval required by law to be obtained prior to the installation, operation, or repair or alteration of a boiler, pressure vessel, or pressure system.

"Approved" means approved by the department.

"Appurtenance" means a device installed on and used in the normal operation of a boiler or pressure vessel.

"ASME Code" means the Boiler and Pressure Vessel Code of the American Society of Mechanical Engineers, 1998 and 1999 Addenda.

"ASME CSD-1" means controls and safety devices for automatically fired boilers of the American Society of Mechanical Engineers 1998.

"Attorney general" means the attorney general of the State of Hawaii or any of the attorney general's deputies.

"Authorized inspection agency" means:

- (1) The department of labor and industrial relations, boiler and elevator inspection bureau; or
- (2) An insurance company which has been licensed or registered

by the appropriate authority of the State to write boiler and pressure vessel insurance and does write and provide inspection service of boilers and pressure vessels.

"Boiler" means a closed vessel in which water is heated, steam is generated, steam is superheated, or any combination thereof, under pressure for use external to itself, by the direct application of heat and includes fired units for heating or vaporizing liquids other than water where these units are separate from processing systems and complete within themselves:

- (1) "Power boiler" means a boiler in which steam or other vapor is generated at a pressure of more than 15 psig (103 kPa gage) for use external to itself.
- (2) "High-temperature water boiler" means a water or other liquid boiler intended for operation at pressures in excess of 160 psig (1100 kPa gage) or temperatures in excess of 250° F (121° C), or both.
- (3) "Thermal fluid boiler" means a fluid heater intended for heating a fluid to be circulated externally to itself for the purpose of energy transfer.
- (4) "Heating boiler" means a steam or vapor boiler operating at pressures not exceeding 15 psig (103 kPa gage) or a hot water boiler operating at pressures not exceeding 160 psig (1100 kPa gage) or temperatures not exceeding 250° F (121° C) which include steam heating, hot water heating, and hot water supply boilers:
  - (A) "Steam heating boiler" means a steam boiler for operation at pressures not exceeding 15 psig (103 kPa gage);
  - (B) "Hot water heating boiler" means a boiler in which no steam is generated, from which hot water is circulated for heating purposes and returned to the boiler, and which operates at a pressure not exceeding 160 psig (1100 kPa gage) or a temperature of 250° F (121° C) or both at or near the boiler outlet; and
  - (C) "Hot water supply boiler" means a boiler completely filled with water that furnishes hot water to be used externally to itself at pressures not exceeding 160 psig (1100 kPa gage) or at temperatures not exceeding 250° F (121° C) at or near the boiler outlet.
- (5) "Electric boiler" means a power boiler or heating boiler in which the source of heat is electricity.
- (6) "Miniature boiler" means a power boiler or high

temperature water boiler which does not exceed any one of these limits:

- (A) Sixteen inches (410 mm) inside diameter of shell;
  - (B) Twenty square feet (1.9 m <sup>2</sup>) heating surface (not applicable to electric boilers);
  - (C) Five cubic feet (140 liters) gross volume exclusive of casing and insulation; and
  - (D) One hundred psig (690 kPa gage) maximum allowable working pressure.
- (7) "Waste heat boiler or unfired steam boiler" means an unfired pressure vessel or system of unfired pressure vessels intended for operation in excess of 15 psig steam for the purpose of producing and controlling an output of thermal energy.
- (8) "Heat recovery boiler" means a vessel or system of vessels comprised of one or more heat exchanger surfaces used for the recovery of waste heat.
- (9) "Portable boiler" means a boiler which is primarily intended for temporary location and the construction and usage permits it to be readily moved from one location to another.

"Certificate of competency" means a certificate issued to a person who has passed the examination prescribed by the director.

"Commission, National Board" means the commission issued by the National board to a holder of a certificate of competency.

"Condemned boiler or pressure vessel" means a boiler or pressure vessel that has been inspected and declared unsafe or disqualified by legal requirements by an inspector and a stamping or marking designating its condemnation has been applied by the inspector.

"Contractor" means any person, firm, or corporation installing, repairing, or servicing and responsible for the safe operation of any boiler, pressure vessel, or pressure system, inspected pursuant to chapter 397, HRS.

"Department" or "DLIR" means the department of labor and industrial relations, State of Hawaii.

"Director" means the director of the department of labor and industrial relations or the director's designee.

"Discrepancy" means the non-conformance of an item, unit, or part to codes, standards, rules, or regulations required by part 10 of this subtitle which the owner, user, or contractor could not have had knowledge.

"Division" or "HIOSH" means the Hawaii occupational safety and health division, department of labor and industrial relations, State of Hawaii.

"Existing installation" means any boiler or pressure vessel constructed, installed, placed in operation, or contracted for before the effective date of these rules.

"Factor of safety" is the number by which a given permissible force, or load, value can be multiplied before the boiler or pressure vessel reaches its ultimate design strength value.

"Fired" means the application of heat from the combustion of gaseous, liquid, or solid fuels; from electricity; or from nuclear sources which includes direct or indirect fired:

- (1) "Direct" means the primary application of heat.
- (2) "Indirect" means other than the primary application of heat.

"Fuel" means any matter consumed to produce heat.

"Hawaii Revised Statutes" or "HRS" means laws enacted by the Hawaii State Legislature.

"Heat" means thermal energy in transition by radiation, conduction, convection, or any combination of these.

"Inspector" means the chief inspector, inspector, special inspector, or owner-user inspector holding a valid certificate of competency issued by the department:

- (1) "Chief inspector" means the appointed chief boiler and pressure vessel inspector;
- (2) "Inspector" means any boiler inspector appointed by the director and employed by the department;
- (3) "Special inspector" means an inspector holding a State of Hawaii, certificate of competency and who is regularly employed by an insurance company authorized to insure boilers or pressure vessels in this State; and
- (4) "Owner-user inspector" means an inspector who holds a valid National Board Owner-User Commission who has passed the examination prescribed by the director and who is continuously employed as an inspector by an owner-user inspection agency.

"Jurisdiction" means a state, commonwealth, county, or municipality of the United States or a province of Canada which has adopted one or more sections of the ASME Code, one of which is Section I, and maintains a duly constituted department, bureau, or division for the purpose of enforcement of this code.

"Lined potable water heater" means a water heater with a corrosion resistant lining used to supply potable hot water.

"May" means permissive.

"National Board" means the National Board of Boiler and Pressure Vessel Inspectors, 1055 Crupper Avenue, Columbus, Ohio 43229, whose membership is comprised of the chief inspectors of jurisdictions who are charged with the enforcement of the provisions

of the ASME Code.

"National Board Inspection Code" means the National Board Inspection Code, ANSI/NB-23, 1998 and 1998 Addenda.

"New boiler or pressure vessel installation" means all boilers or pressure vessels constructed, installed, placed in operation, or contracted for after the effective date of these standards and codes.

"NFPA" means the National Fire Protection Association.

"NFPA 70" means NFPA 70-1996, National Electrical Code.

"Nonstandard boiler or pressure vessel" means a boiler or pressure vessel that does not bear the ASME symbol.

"Nuclear power plant" means a plant consisting of one or more nuclear power and containment systems.

"Nuclear power system" means a system which serves the purpose of producing and controlling an output of thermal energy from nuclear fuel and those associated systems essential to the functions of the power system; the components of the system include such items as pressure vessels, piping system, pumps, valves, and storage tanks.

"Operating permit" means a permit issued by the department authorizing the operation of a boiler or pressure vessel or pressure system.

"Order" means a command to perform a mandatory act issued by the department.

"Owner" means any person, firm, or corporation with legal title to any boiler, pressure vessel or pressure system, inspected pursuant to chapter 397, HRS, who may or may not be the user.

"Owner-user inspection agency" means an owner or user of boilers, pressure vessels and pressure system who maintains a regularly established inspection department, whose organization and inspection procedures meet the requirements of the National Board rules and are acceptable to the department.

"Permit-inspection" means an inspection, the report of which is used by the department as justification for issuing, withholding, or revoking the operating permit which includes internal and external inspections.

(1) "Internal inspection" means as complete an examination as can reasonably be made to the internal and external surfaces of a boiler or pressure vessel while it is shut down, and manhole plates or handhole covers, or other inspection opening closures, are removed as required by the inspector.

(2) "External inspection" means an inspection made when a boiler or pressure vessel is in operation, when the controls, safety devices, and pressure containing components are examined.

"Pressure piping" means piping systems specified in ASME

B31.1-1995 and B31.1(b) 1996 Addenda.

"Pressure system" means a system composed of unfired pressure vessels and piping components for liquid or vapor distribution at a pressure of more than 15 psi or a temperature in excess of 250° F, or both, that includes but is not limited to a bank of pressure vessels connected without any intervening valves.

"Pressure vessel" means a closed vessel in which the pressure is obtained from an external source, or by the application of heat from an indirect source, or from a direct source, other than those vessels defined as boilers in this section which includes fired and unfired pressure vessels.

(1) "Fired pressure vessel" means a closed vessel in which steam is generated for use within itself by the direct or indirect application of heat.

(2) "Unfired pressure vessel" means a closed vessel in which pressure is obtained from an external source.

"Psig" means pounds per square inch gage.

"Reinstalled boiler or pressure vessel" means a boiler or pressure vessel removed from its original setting and reinstalled at the same location or at a new location without change of ownership.

"Relief valve" means an automatic pressure relieving device, used primarily for liquid service, actuated by the static pressure upstream of the valve which opens further with the increase in pressure over the opening pressure.

"Repair" means the work necessary to restore a boiler or pressure vessel to a safe and satisfactory operating condition, provided there is no deviation from the original design.

"Safety-relief valve" means an automatic, pressure-actuated relieving device suitable for use either as a safety valve or relief valve depending on application.

"Safety valve" means an automatic pressure relieving device, used for gas or vapor service, actuated by the static pressure upstream of the valve, and characterized by full-opening pop action.

"Second-hand boiler or pressure vessel or used boiler or pressure vessel" means a boiler or pressure vessel which has changed both location and ownership since primary use.

"Shall" means mandatory.

"Standard boiler or pressure vessel" means a boiler or pressure vessel which bears both the ASME symbol and National Board number.

"Unfired" means the application of pressure or heat that is obtained from an external source.

"User" means any person, firm, or corporation legally in possession and responsible for the safe operation of any boiler, pressure vessel, or pressure system inspected pursuant to chapter 397, HRS.

"Vendor" means any person, firm, or corporation that sells or distributes any boiler, pressure vessel or pressure system required to be inspected pursuant to chapter 397, HRS.

"Violation" means non-conformance of an item, unit, or part to codes, standards, rules, or regulations required by this subtitle.

"Water heater" means a closed vessel in which water is heated by the combustion of fuels or by electricity, or by any other source, and withdrawn for use external to the system at pressure not exceeding 160 psig (1100 kPa gage) and shall include all controls and devices necessary to prevent water temperature from exceeding 210° F (99° C).

"Welding documentation" means welding procedure specifications, procedure qualification records, records of welder or welding operator performance qualification, and reports of welded repairs or alterations. [Eff 12/6/82; am 12/19/83 am 12/8/86; am and comp 12/6/90; am 7/6/98; am 6/19/00] (Auth: HRS §397-4) (Imp: HRS §397-4)

**§12-220-2 Minimum construction standards.** (a) All new boilers and pressure vessels, unless otherwise exempt, to be operated in Hawaii, shall be designed, constructed, inspected, stamped, and installed in accordance with the ASME code and the latest addenda and these standards. Pressure vessels for human occupancy must meet these requirements plus complying with ANSI/ASME PVHO 1. Boilers and pressure vessels for which an ASME manufacturers' data report is required shall bear the manufacturers' NB number as registered with the National Board. A copy of the manufacturers' data report, signed by the manufacturer's representative and the National Board's commissioned inspector, shall be filed with the department.

(b) If a boiler or pressure vessel cannot bear the ASME and National Board stamping, details in the English language and United States customary units of the proposed construction, material specifications, and calculations shall be submitted to the department by the owner, user, and manufacturer for approval as "State special" before construction is started. [Eff. 12/6/82; am and comp 12/6/90; am 7/6/98] (Auth: HRS §397-4) (Imp: HRS §397-4)

**§12-220-3 Restamping boilers and pressure vessels.** When the stamping on a boiler or pressure vessel becomes indistinct, the inspector shall instruct the owner or user to have it restamped. Request for permission to restamp the boiler or pressure vessel shall be made to the department, and proof of the original stamping shall accompany the request. This stamping shall be in accordance with the National Board Inspection Code. [Eff. 12/6/82; am and ren §12-220-3 and comp 12/6/90] (Auth: HRS §397-4) (Imp: HRS §397-4)



**§12-220-4 Restrictions on nonstandard boilers or pressure vessels.** The installation, operation, sale, or the offering for sale of nonstandard boilers or pressure vessels in Hawaii is prohibited without the expressed written permission of the department. Refer to section 12-220-32. [Eff. 12/6/82; am 12/8/86; am and ren §12-220-4 and comp 12/6/90; am 7/6/98] (Auth: HRS §397-4) (Imp: HRS §397-4)

**§12-220-5 Installation of used boilers or pressure vessels.** Used or second-hand boilers and pressure vessels, when installed in this jurisdiction, shall be equipped with fittings and appurtenances that comply with the requirements for new installations. [Eff. 12/6/82; am and ren §12-220-5 and comp 12/6/90; am 7/6/98] (Auth: HRS §397-4, §397-6) (Imp: HRS §397-4, §397-6)

**§12-220-6 Reinstalled boiler or pressure vessel.** When a stationary boiler or pressure vessel is moved and reinstalled, the attached fittings and appurtenances shall comply with the requirements for new installations. [Eff. 12/6/82; am and ren §12-220-6 and comp 12/6/90; am 7/6/98] (Imp: HRS §397-4) (Auth: HRS §397-4)

**§12-220-7 Working pressure for existing installations.** Any inspector may decrease the working pressure on any existing installation if the condition of the boiler or pressure vessel warrants. If the owner or user does not concur with the inspector's decision, the owner or user may appeal to the director as outlined in section 12-220-23 [Eff. 12/6/82; am and ren §12-220-7 and comp 12/6/90; am 7/6/98] (Auth: HRS §397-4) (Imp: HRS §397-4)

**§12-220-8 Repairs and alterations.** (a) When repairs and alterations are to be made, the requirements of the National Board Inspection Code shall apply. Applications for authorization for repair/alteration shall be filed in the prescribed form along with the applicable fee per section 12-220-35 table 220-1 with the department prior to commencement of work. A complete application shall include name of the applicant, address, telephone number, "R" stamp number and expiration date. A copy of the manufacturer's data report form shall be submitted along with drawings of the proposed alteration, calculations, materials, procedures, new maximum allowable working pressure and temperature. The type of equipment shall be identified with pertinent information such as, power boiler, heating boiler or pressure vessel number, National Board number, name of manufacturer and year built. Incomplete, illegible or applications with insufficient data shall not be considered for approval.

(b) It is a requirement of the department that the holder of a National Board Repair Symbol shall have in force at all times a valid inspection contract or agreement with an authorized inspection agency that employs authorized inspectors as defined in the National Board Inspection Code Part RA.

(c) It shall be the responsibility of the organization making the repair or alteration to provide for inspection, documentation, and certification of the work. The inspection agency responsible for inservice inspection of the boiler or pressure vessel shall have access to review the repair procedures.

(d) The R-1, R-2 or R-3 form, as applicable, shall be submitted to the department as soon as possible, following the completion of the repairs or alterations but no later than thirty days. The drawings, design-calculations, NDE records, the checklists and other pertinent documents shall be kept for a period of five years. [Eff 12/6/82; am 12/8/86; am and ren §12-220-8 and comp 12/6/90; am 7/6/98; am 6/19/00] (Auth: HRS §397-4) (Imp: HRS §397-4)

**§12-220-9 Riveted patches.** In applying riveted patches, the design of the patch and method of installation shall be in accordance with the National Board Inspection Code, 1973 edition.

[Eff. 12/6/82; ren §12-220-9 and comp 12/6/90] (Auth: HRS §397-4) (Imp: HRS §397-4)

**§12-220-10 Safety appliances.** (a) No person shall attempt to remove or do any repair or modification on any safety appliance prescribed by these rules while the appliance is subject to pressure.

(b) Should any of these appliances be removed for repair during an outage of a boiler or pressure vessel, they must be installed and in proper working order before the object is again placed in service.

(c) No person shall alter any safety or safety-relief valves or pressure relief devices in any manner to maintain a working pressure in excess of that stated on the boiler or pressure vessel operating permit.

(d) Repair of safety valves shall be made only by an organization which holds a valid certificate of authorization for use of the National Board "VR" safety valve repair symbol stamp. A variance may be granted to the requirement for the National Board "VR" safety valve repair symbol stamp provided the following requirements are met:

- (1) The repair organization shall have a written quality control system as described in the National Board

Inspection Code Part RA.

- (2) A written application for consideration shall be made to the department. The application for consideration shall contain, in sufficient detail, the:
  - (A) Types of safety valves repaired;
  - (B) Repair procedures followed for each type of valve;
  - (C) Documentation of parts or materials utilized, which shall be original manufactured parts or equivalent;
  - (D) Nature of the training program utilized to qualify repairers; and
  - (E) Report from an inspector qualified by the jurisdiction relative to the competency of the organization to perform these repairs.
- (3) Work performed shall be to return the valve to "like new" condition. Capacity, pressure, or blowdown setting of the valve shall not be changed.
- (4) Any inspector shall notify the department if the approved standards are not maintained. The department shall review the terms of the variance for compliance.
- (5) Repair of ASME section IV safety valves as applied for section IV service, shall not be permitted except by the manufacturer.
- (6) Training and qualifications of personnel shall meet the requirements of the National Board Inspection Code Part RA. [Eff 12/6/82; am 12/8/86; ren §12-220-10 and comp 12/6/90; am 7/6/98; am 6/19/00] (Auth: HRS §397-4) (Imp: HRS §397-4)

**§12-220-11 Requirements for new installations**. (a) The new installations shall require filing of an application for installation permit prior to the commencement of work. A complete application shall include date of application, project name and address besides name and address of installer, type of license held and expiration date. The contact person and phone number shall be specified. The applicable fees per section 12-220-35 Table 220-1, also indicated on the application form shall accompany the request. The National Board number shall be filled in appropriately for each vessel to be installed. No boiler or pressure vessel shall hereafter be installed in the State unless it has been constructed in conformity with the ASME Code, registered with the National Board, and installed in conformity with this chapter except:

- (1) Those exempt by chapter 397, HRS;
- (2) Those outlined in section 12-220-2(b);
- (3) Boilers and pressure vessels under federal inspection and control;

- (4) Unfired pressure vessels meeting the requirements of the United States Department of Transportation and used for transporting liquids or gases under pressure;
- (5) Unfired pressure vessels with a nominal water containing capacity of 120 gallons or less for containing liquid under pressure, including those containing air, the compression of which serves only as a cushion;
- (6) Hot water supply boilers and hot water heating boilers which are directly fired with oil, gas, or electricity when none of these limitations are exceeded:
  - (A) A heat input of 200,000 Btu per hour;
  - (B) A water temperature of 210°F; and
  - (C) A nominal water containing capacity of 120 gallons except that hot water supply boilers shall be equipped with a proper size, type, and capacity safety-relief valve as set forth in section IV of the ASME Code;
  - (D) An operating pressure not exceeding 160 PSI.
- (7) Unfired pressure vessels designed for a pressure not exceeding 15 psi;
- (8) Pressure vessels not exceeding:
  - (A) Five cubic feet in volume and 250 psi design pressure;
    - [(B) One and one-half cubic feet in volume and 600 psig pressure; or]
  - (B) Three cubic feet in volume and 350 psi design pressure;
  - (C) One and one-half cubic feet in volume and 600 psi design pressure; or
  - (D) An inside diameter of 6 inches with no limitation on pressure;
- (9) Containers for storage of liquified compressed flammable gases under the jurisdiction of other agencies;
- (10) Unfired pressure vessels containing water and filtering material for use in irrigation of land;
- (11) Unfired pressure vessels for the storage of cold water;
- (12) Electrically heated sterilizers or steam cookers when neither of these limitations is exceeded:
  - (A) Heat input of 3.0 KW; or
  - (B) A volume of 1.5 cubic feet.

**(b)** The stamping done in accordance with section 12-220-31 shall not be concealed by lagging or paint and shall be exposed at all times unless a suitable record is kept of the location of the stamping so that it may be readily uncovered at any time.

[Eff 12/6/82; am 12/8/86; am and ren §12-220-11 and comp 12/6/90; am

7/6/98; am 6/19/00] (Auth: HRS §397-4) (Imp: HRS §397-4)

**§12-220-12 Care of boiler and pressure vessel spaces.**

(a) The boiler and pressure vessel spaces shall be free from accumulation of rubbish and materials that may obstruct access to the boiler, pressure vessel, or appurtenance.

(b) The storage of flammable material or fuel-powered equipment in the boiler room is prohibited. [Eff. 12/19/84; ren §12-220-12 and comp 12/6/90] (Auth: HRS §397-4) (Imp: HRS §397-4)

**§12-220-13 Conditions not treated in this part.** For any conditions not treated in this part, the applicable provisions of the ASME Boiler and Pressure Vessel Code, ASME B31.1, the National Board Inspection Code, ASNT Recommended practice No. SNT-TC-1A 1992 Ed or ASNT Standard for Qualification and Certification of Nondestructive Testing Personnel (ASNT-CP-189) shall apply. The American Petroleum Institute Pressure Vessels Inspection Code, API-510, shall not take precedence over the safety standards of this part or any reference codes. However, variances may be granted in accordance with section 12-220-34 [Eff. 12/6/82; am 12/8/86; am and ren §12-220-13 and comp 12/6/90; 7/6/98] (Auth: HRS §397-4) (Imp: HRS §397-4)

**§12-220-14 Complaints.** (a) Complaints may be made to the department and where reasonable grounds exist for the department to believe there may be a hazard, there shall be an inspection in response to the complaint.

(b) Names of all complainants and witnesses shall be held in confidence by the department, unless prior permission has been given by the complainant or witness to release his or her name, or unless it has been determined by the attorney general that disclosure is necessary for enforcement and review of this chapter. [Eff 7/6/98] (Auth: HRS §397-4) (Imp: HRS §397-4)

**§12-220-15 Permits.** (a) An installation permit shall be issued by the department based on the approval of drawings and specifications pertaining to the installation of boilers, pressure vessels or pressure system. Operating permits shall be issued on the basis of the report of the acceptance inspection and each permit inspection.

(b) No person shall install, construct, reconstruct, or relocate any boiler, pressure vessel or pressure system without first obtaining an installation permit from the department.

(1) The plans and specifications for installation of boilers, pressure vessels, or pressure systems together with such details as are pertinent to the installation shall be

submitted to the department before any work is begun on the installation. Plans shall be resubmitted for any project on which the installation has not commenced within three years of the plan approval date. Copies of engineering data, tests, manufacturer's data reports and laboratory reports, and any other pertinent information deemed necessary by the department shall be submitted by the installer on any new equipment or appurtenance to be installed for the first time in the State of Hawaii.

- (2) An installation permit as required under subsection (a) shall be issued only to a person who is licensed to engage in the business of installing or repairing boilers, pressure vessels, or pressure systems by the contractors license board of the department of commerce and consumer affairs, State of Hawaii. All installation permit applications shall be deemed approved if not acted upon by the department within thirty calendar days from the date of receipt of the completed application.

- (A) All repairs and alterations performed on boilers, pressure vessels, pressure systems, and boiler external piping shall be reported to the department within thirty calendar days.
  - (B) The contractor authorized by the department shall be responsible for furnishing to the department all documentation required and referenced in the standards and codes adopted by the department for construction, repair, or alteration of any boiler, pressure vessel, or pressure system.

- (3) The department shall, before issuance of a permit for installing, constructing, reconstructing, or relocating as required under subsection (a) above, charge and collect a fee for each permit in accordance with the schedule in tables 220-1 and 220-2 in section 12-220-35.

(c) The department shall issue a "permit to operate" for any boiler, pressure vessel, or pressure system required by these rules and inspected by an inspector employed by the department and found to be safe and in compliance with this subtitle. It shall be unlawful for any person, firm, association, partnership, or corporation to operate a boiler, pressure vessel, or pressure system regulated by this chapter unless a permit for the operation has been authorized by the department and the permit remains in effect.

- (1) A permit to operate a boiler, pressure vessel, or pressure system shall be issued to the owner or lessee only after an inspector has found that the device has met all requirements of this chapter.

- (2) A valid permit may be extended for cause by the department if so requested in writing by the owner or lessee.
- (3) The permit to operate shall indicate the type of equipment for which it is issued. In the case of boilers, pressure vessels, and pressure systems, it shall state whether it is a power boiler, hot water supply boiler, or heating boiler. In the case of pressure vessels, whether it is hot water or compressed air. These permits shall also indicate the maximum allowable working pressure and the national board number. The permit to operate shall be posted conspicuously near the equipment.
- (4) The department may immediately revoke any "permit to operate" for any equipment, required to be inspected by this chapter, found to be in an unsafe condition or when a user, owner, or contractor ignores department orders to correct specific defects or hazards and continues to use or operate the above mentioned apparatus without abating the hazards or defects.
- (5) The department shall re-issue a "permit to operate" to any user, owner, or contractor who demonstrates good faith in proceeding to abate all nonconforming conditions specified in department orders provided the boilers, pressure vessels, or pressure systems are safe to operate.
- (6) A "permit to operate" shall be valid only at the location for which it was issued except for boilers or pressure vessels which are indicated on the permit as being portable.
- (7) No boiler, pressure vessel, or pressure system which is required to be inspected by chapter 397, HRS, or by any rule adopted pursuant to chapter 91, HRS, shall be operated except as necessary to install, repair, or test unless a permit to operate or certificate of inspection has been authorized or issued by the department and remains valid. Boilers not in use for a period of one year or more, for any reason, shall be inspected internally and externally before being placed into operation.
- (8) The department may, upon the application of any owner or user or any other person affected thereby, grant a reasonable period of time as may be necessary for compliance with any order. Any person affected by an order may for cause petition the department for an extension of time.
- (d) The department shall issue a repair or alteration permit only to holders of a current R certificate of

authorization from the National Board and subject to compliance with 12-220-8. All applications for alteration and repair permits shall be deemed approved if not acted upon by the department within fifteen calendar days from the date of the receipt of application. [Eff 12/6/82; am 12/8/86; am and ren §12-220-11 and comp 12/6/90; am 7/6/98; am 6/19/00] (Auth: HRS §397-4) (Imp: HRS §397-4)

**§12-220-16 Inspections and tests.** (a) The department shall inspect to insure compliance with chapter 397, HRS, any activity related to the erection, construction, alteration, repair, or maintenance of facilities containing boilers, pressure vessels, or pressure systems. The department may authorize special inspectors in the employ of insurance companies who shall inspect boilers and pressure vessels insured by the insurance companies. All equipment required by this section to be inspected is exempt from the requirements of this chapter, if under the jurisdiction of the United States government or if serving only a private residence and not accessible to the general public except where the location could affect persons other than the owner or owners and meet the requirements of section 12-220-11(a).

(b) All inspections and witnessing of tests for boilers, pressure vessels, and pressure systems as required pursuant to this chapter, shall be made in conformance with the procedures set forth in ASME Code, National Board Inspection Code, and this chapter. Where notations of discrepancies, recommendations, or requirements are made, these notations shall refer to the applicable rule of ASME Code, National Board Inspection Code, and this chapter.

(c) Power boilers shall receive a permit following an annual internal inspection. An external inspection shall be performed approximately six months after each internal inspection.

(d) Miniature electric boilers shall receive a permit inspection biennially. An internal inspection shall be performed when deemed necessary by the inspector.

(e) Heating boilers shall receive a permit inspection biennially.

(1) Steam or vapor boilers shall have an external inspection and an internal inspection every two years where construction permits.

(2) Hot water heating and hot water supply boilers shall have an external inspection every two years and, where construction permits, an internal inspection at the discretion of the inspector.

(f) Except as provided for in paragraphs (1) and (2) below, power boilers shall receive a permit inspection every year followed



by an external inspection approximately six months later. Heating boilers shall receive a permit inspection every two years and pressure vessels shall receive a permit inspection up to every four years.

- (1) Unfired jacketed steam kettles or steam chambers receiving steam from an external source exceeding five cubic feet in volume shall receive a permit inspection every two years.
- (2) An internal inspection shall be performed when deemed necessary for continued safety by the inspector.

(g) Boilers and pressure vessels that are under the supervision of an owner-user inspection agency shall be inspected in accordance with the National Board Inspection Code.

(h) Nuclear power plants that are included in chapter 397, HRS, shall be inspected as provided by section XI of the ASME Code.

(i) Based upon documentation of actual service conditions by the owner or user of the operating equipment, the department may, at its discretion, permit variations in the inspection frequency requirements.

(j) Power boilers having continuous internal water treatment under the general supervision of a qualified engineer or chemist, having a minimum of five years experience in the treatment of boiler water, at least one year of which shall have been on the boiler or boilers in question, where the water treatment is for the purpose of controlling and limiting serious corrosion and other deteriorating factors may, upon approval of the director, be given a permit inspection at intervals of not more than two years, in which case three external inspections shall be performed at approximately equal intervals between the internal inspections.

- (1) The owner of a boiler shall keep an accurate record which will show that the samples of boiler water have been taken at regular intervals not greater than twenty four hours of operation, and the records shall show that the water conditions in the boiler meet the controlling and limiting factors mentioned in this section in accordance with the standards and codes approved by the department. The owner or user of boilers shall also keep a record of the date and actual time that boilers were out of service and the reasons therefore. All records mentioned in this section are to be made available by the owner of boilers to the inspector for examination.
- (2) When a biennial inspection is desired by a boiler owner, a written application for consideration shall be made to the department. The application shall contain, in sufficient detail, the following information:
  - (A) Use of boiler;

- (B) Boiler data, name of manufacturer, and all identifying numbers;
  - (C) Name and pertinent qualifications of the qualified engineer or chemist in charge of water treatment;
  - (D) The laboratory facilities for testing and analyzing boiler water;
  - (E) The boiler water analysis standards established and achieved over the preceding twelve months period;
  - (F) Method and frequency of sampling water;
  - (G) Percentage of makeup water;
  - (H) Record of boiler outages occurring since the last internal inspection; and
  - (I) Report from a special or deputy inspector relative to acceptability of the boiler for biennial inspection.
- (3) On approval of the application by the department, the expiration date of the current annual operating permit shall be extended for a period of one year. Subsequent permits shall be issued to expire annually and may be extended for not more than one year provided the boiler reports submitted to the department, at periods as shall be required, indicate that the approved standards and codes are being maintained and provided that all other conditions are being met.

**(k)** Notification of unsafe boilers, pressure vessels, and pressure systems.

- (1) If a special inspector, upon first inspection of a new risk, finds that a boiler, pressure vessel, or pressure system, or any appurtenance thereof, is in such condition that the insurance company would refuse insurance, the company shall immediately notify the department.
- (2) If, upon inspection, a special inspector finds a boiler, pressure vessel, or pressure system to be unsafe for further operation, the special inspector shall promptly notify the owner or user, stating what repairs or other corrective measures are required to bring the object into compliance with these rules. Unless the owner or user makes repairs or adopts other corrective measures promptly, the special inspector shall immediately notify the department. Unless corrections have been made, no further operation of the boiler, pressure vessel, or pressure system involved shall be permitted. If an operating permit for the object is required and is in force, it shall be suspended by the special inspector. When reinspection establishes that the necessary repairs

have been made or corrective actions have been taken and that the boiler, pressure vessel, or pressure system is safe to operate, the department shall be notified and an operating permit will be issued by the special inspector.

(1) Defective conditions disclosed at time of inspection. If, upon an inspection, there is evidence of a leak or crack, adequate access shall be provided to permit the inspector to satisfactorily determine the safety of the boiler, pressure vessel, or pressure system.

(m) Notification of inspection. Permit inspections, as required in section 12-220-16, shall be carried out prior to the expiration date of the certificate at a time mutually agreeable to the inspector and owner or user. External inspections may be performed by the inspector during reasonable hours and without prior notification. When, as a result of external inspection or determination by other objective means, it is the inspector's opinion that continued operation of the boiler or pressure vessel constitutes a danger to personnel or property, the inspector may request an internal inspection or an appropriate pressure test, or both, to evaluate conditions. In these instances the owner or user shall prepare the boiler, pressure vessel, or pressure system for inspections or tests as the inspector designates.

(n) Submission of inspection reports.

(1) Inspectors shall submit to the department an inspection report on Form NB-5 of the National Boiler Inspection Code or similar forms approved by the department for each boiler and pressure vessel subject to inspection in Hawaii. Complete data shall be submitted for each state special boiler, pressure vessel, or pressure system.

(2) Subsequent inspections by deputy inspectors, owner-user inspectors, and special inspectors of both standard and non-standard boilers, pressure vessels, and pressure systems shall be reported on Forms NB-6 and NB-7 of the National Board Inspection Code or similar forms approved by the department.

(3) Inspection reports following the requirements of subsections (a) and (b) above shall be submitted within thirty days from the date of the inspection.

(4) Owner-user inspection agencies shall report in accordance with this subsection or upon forms acceptable to the department, and the report shall be filed as provided in section 12-220-19.

(o) Notification by insurance companies. All insurance companies shall notify the department within thirty days of all boilers, pressure vessels, or pressure systems on which insurance is

written, canceled, or not renewed. [Eff 12/6/82; am 12/8/86; am and ren §12-220-11 and comp 12/6/90; am 7/6/98 am 6/19/00] (Auth: HRS §397-4) (Imp: HRS §397-4)

**§12-220-17 Investigations.** The department shall investigate, in accordance with section 12-220-27, accidents involving boilers, pressure vessels, or pressure systems, inspected under this chapter and may issue orders and recommendations with respect to the elimination and control of the cause factors. [Eff 7/6/98] (Auth: HRS §397-4) (Imp: HRS §§397-4, 397-6)

**§12-220-18 Inspectors.** (a) Boiler inspectors.

- (1) Required inspections of boilers, pressure vessels, and pressure systems shall be performed by boiler inspectors in the employ of the department who are qualified boiler inspectors or may be performed by special inspectors who are qualified boiler inspectors, in the employ of insurance companies who meet the requirements of the National Board for insuring boilers or pressure vessels in Hawaii. Boilers, pressure vessels, and pressure systems owned by an owner user inspection agency may be inspected by qualified inspectors employed by such inspection agency.
- (2) A qualified boiler inspector is a person in possession of a valid commission issued by the National Board and who has received instructions regarding rules and regulations pertaining to boilers, pressure vessels, and pressure systems in Hawaii from the director or authorized representative.
- (3) On application and payment of the fee set forth in table 220-2 in section 12-220-35 by an insurance company insuring boilers or pressure vessels in Hawaii, or by an owner-user inspection agency, on behalf of an employee holding a National Board commission, an identifying certificate of competency as a special inspector in Hawaii will be issued after the employee has appeared before the director or authorized representative.
- (4) The certificate of competency, unless suspended, revoked, or canceled, shall expire on December 31 of the year of issue or renewal. It may be renewed within ninety days after expiration, without examination, upon application to the department, the showing of a current National Board commission, and the payment of the renewal fee set forth in table 220-2, in section 12-220-35.
- (5) The company employing these special inspectors shall

notify the department when the employment of the special inspector is terminated.

- (6) A National Board examination for certificates of competency to inspect boilers and pressure vessels shall be administered by the department on the first Wednesday and Thursday of March, June, September, and December of each year.
  - (A) Applicants shall have a high school education, or the equivalent, and have at least three years of experience at a journeyman level, or the equivalent, in boiler or pressure vessel construction or repair or operating engineer in charge of high pressure boilers or inspector of steam boilers or pressure vessels. A degree in mechanical engineering from a curriculum accredited by the Accreditation Board for Engineering and Technology college or university shall be the equivalent of two years of practical experience. Application for examination by a person other than an employee of the department shall be in writing upon a form provided by the department. If the applicant's history and experience meet with the approval of the department, the applicant shall be given a written examination dealing with the construction, installation, operation, maintenance, or repair of boilers and appurtenances. If the applicant is successful in meeting all the requirements, a certificate of competency shall be issued by the department. An applicant who fails to pass the examination shall be permitted to take another written examination after the expiration of ninety days.
  - (B) Each applicant taking the examination for a certificate of competency, except those in the employ of the State, shall pay the fee set forth in table 220-2, in section 12-220-35. In the event an applicant fails to pass the examination, this fee shall be good for a period of six months during which a reexamination may be taken. The fee must accompany the application. The application shall be filed in the office of the department at least thirty days prior to the date of examination.
  - (C) Each boiler, pressure vessel, and pressure system inspector in the employ of the State shall pass the National Board examination and be issued a certificate of competency from the department during

the probationary employment period. A commission from the National Board shall then be obtained by the department to enable the employee to become a qualified boiler inspector.

(b) Commissions to inspect shall be carried at all times by inspectors while engaged in the performance of inspectional duties. Commissions are non-transferable.

(c) The certificate of competency and commissions issued to an inspector may be suspended by the director for cause and may be revoked after due investigation and recommendation by the department upon ten days notice to the inspector and to the inspector's employer. Cause for suspension or revocation shall be incompetency or untrustworthiness, wilful falsification of any matter or statement contained in the inspector's application or in the report of any inspections, or other sufficient reason. Prior to revocation, the holder of the certificate of competency or commission shall be entitled to a hearing before the director. A person whose commission or certificate of competency has been suspended or revoked, except for untrustworthiness, shall be entitled to apply to the department for reinstatement or, in the case of revocation, for a new examination and commission ninety days after the revocation.

(d) No person shall be authorized to act for the State either as an inspector or a special inspector who is directly interested in the manufacture, sale, or repair of any equipment or any appurtenance used on any equipment which is inspected pursuant to chapter 397, HRS. [Eff 7/6/98] (Auth: HRS §397-4) (Imp: HRS §§397-4, 397-6)

**§12-220-19 Owner-user inspection agency.** (a) Any person, firm, partnership, or corporation operating boilers, pressure vessels, and pressure systems in Hawaii may seek approval and registration as an owner-user inspection agency by filing an application to the department.

(b) The application and registration shall show the name of the agency and its principal address in Hawaii, and the name and address of the person having supervision over inspections made by the agency. Changes in supervisory personnel shall be reported to the department within thirty days after any change.

(c) The applicant shall set forth in writing the program, procedures, and organizational chart as shown in Part RA of the National Board Inspection Code. These documents shall be submitted to the department for approval prior to implementation.

(d) Each owner-user inspection agency shall:

- (1) Conduct inspections of boilers, pressure vessels, and pressure systems not exempt by chapter 397, HRS, utilizing only qualified inspectors, as defined in section 12-220-

- 18(a);
- (2) Execute and deliver to the department the inspection reports on vessels inspected which include appropriate requirements or recommendations that result from the inspection. Such reports shall be submitted as soon as possible but no later than thirty calendar days after the completion of the inspection;
  - (3) Promptly notify the department of any boiler, pressure vessel, or pressure systems that does not meet the requirements for safety; and
  - (4) Maintain inspection records which shall include:
    - (A) A list of each boiler, pressure vessel, or pressure systems covered by chapter 397, HRS, complete with National Board number, serial number and abbreviated descriptions necessary for identification;
    - (B) A true record or copy of the latest report of each inspection which shall be signed by the inspector who made the inspection; and
    - (C) The approximate date of the next inspection to be determined by the appropriate rules in Part RB of the National Board Inspection Code and all data available at the time the inspection record is compiled.

(e) Inspection records shall be readily available for examination by the department during business hours. Eff 12/6/82; am 12/8/86; am and ren §12-220-11 and comp 12/6/90; am 7/6/98; am 6/19/00] (Auth: HRS §§397-4, 397-5, 397-6) (Imp: HRS §§397-4, 397-5, 397-6)

**§12-220-20 Fees.** (a) Departmental inspections fees.

- (1) The department shall charge and collect from the owner, user, lessee, contractor, or insurance company referred to in this chapter as the beneficiary, the fees listed in table 220-3 in section 12-220-35 for each inspection made by an inspector during regular working hours. The department shall charge and collect a permit processing fee as listed in table 220-3 in section 12-220-35 for each object inspected and \$5 for each duplicate permit to operate requested.
- (2) When it is necessary to make a special trip to witness a test, an additional fee based upon the scale of fees for a permit inspection for the object under test shall be charged.
- (3) For all other inspections and services, the fee shall be \$75 per hour but not less than \$150 per occurrence during regular working hours and \$150 per hour but not less than

- \$200 per occurrence when performed outside regular working hours at the request of the beneficiary.
- (4) Scheduled inspections delayed or canceled by the beneficiary, too late to prevent the arrival of the inspector on the premises shall be charged for in accordance with the scheduled fee for the type inspection; however, if the notice of cancellation or delay of a scheduled inspection is given in time to prevent the incurring of travel expenses, no fee will be charged.
  - (5) The charge for a rescheduled inspection or a call back inspection to allow a boiler, pressure vessel, or pressure system, to operate may be at the scheduled fee for the type of inspection or for the expenses actually incurred, whichever is greater.
  - (6) When an unscheduled inspection is made at the request of and for the benefit of an owner, user, contractor, or vendor, the sum of expenses incurred shall be charged in addition to the inspection fee.
  - (7) Whenever the beneficiary of an inspection fails to pay the fees required under this section within sixty days after notification, the boiler, pressure vessel, or pressure system shall be tagged out of service and permit revoked and the beneficiary shall pay, in addition to the fees required, a penalty equal to fifty per cent of the fee. For the purpose of this section, the date of invoice shall be considered the date of notification. Upon payment of fees, the operating permit shall be reinstated.
  - (8) Departmental reports of inspections for which expenses must be added to the basic fee shall be accompanied by an itemized account of the inspections made and the expenses incurred.
- (b)** Departmental installation permit and test fees.
- (1) A group of pressure vessels, such as the rolls of a paper machine or dryers operating as a single machine or unit, shall be considered as one pressure vessel.
  - (2) The department shall, before issuance of a permit for installing, constructing, re-constructing, or relocating, charge and collect a fee for each object in accordance with table 220-1 in section 12-220-35.
  - (3) The department shall, before issuance of authorization for a repair, or alteration, charge and collect a fee for each object in accordance with table 220-1 in section 12-220-35.
  - (4) For each instance requiring an installation permit fee, the department shall provide:



- (A) The plan review, inspection and witnessing of the acceptance test on the installation and one additional followup inspection; the followup inspection shall be at the convenience of the department. Any additional inspections required for final acceptance will be at the expense of the beneficiary of the inspection and may be at the convenience of the beneficiary provided all the expenses incurred are paid by the beneficiary and forty-eight hours advance notice is given to the department;
  - (B) The processing and issuance of the temporary permit to operate; and
  - (C) The processing and issuance of the final permit.
- (5) Fees in accordance with table 220-1 in section 12-220-35 or the fee in effect on the application submittal date shall be charged and collected for all installation permits issued. Where the inspection agency of the boiler or pressure vessel listed on the permit application is other than the State of Hawaii, the installation fee shall be reduced to one half of the regular fee.
- (6) For more than one additional inspection for final acceptance, the department may charge and collect from the beneficiary an additional amount in accordance with subsection (a)(3).
- (c) Boiler inspector examination and license fees, according to table 220-2 in section 12-220-35. [Eff 7/6/98] (Auth: HRS §397-4) (Imp: HRS §397-5)

**§12-220-21 Rights and enforcements**. (a) Rights.

- (1) Authorized representatives of the director may enter without delay during regular working hours and at other reasonable times, any place, establishment, or premises in which are located boilers, pressure vessels, or pressure systems requiring inspection pursuant to chapter 397, HRS.
  - (2) The department may question any employer, owner, operator, agent, or employee in investigation, enforcement, and inspection activities covered by this chapter.
  - (3) Any employee of the State acting within the scope of the employee's office, employment, or authority under chapter 397, HRS, shall not be liable for or made a party to any civil action arising out of administration and enforcement of chapter 397, HRS.
- (b) Enforcement.
- (1) Whenever right of entry to a place to inspect any boiler,

pressure vessel, or pressure system required by this chapter to be inspected is refused to an authorized representative of the director, the department may apply to the circuit court where the place exists for a search warrant providing on its face that the wilful interference with its lawful execution may be punished as a contempt of court.

- (2) Whenever the department finds that the construction of or the operation of any boiler, pressure vessel, or pressure system required to be inspected by this chapter is not safe, or that any practice, means, method, operation, or process employed or used is unsafe or is not in conformance with the standards and codes adopted pursuant to chapter 91, HRS, the department shall issue an order to render the construction or operation safe or in conformance with chapter 397, HRS, or standards and codes and deliver the same to the contractor, owner, or user. Each order shall be in writing and may be delivered by mail or in person. The department may in the order direct that, in the manner and within a time specified, such additions, repairs, improvements, or changes be made and such safety devices and safeguards be furnished, provided, and used as are reasonably required to ensure compliance with the purposes and provisions of chapter 397, HRS. The owner, user, or contractor shall obey and observe all orders issued by the department or be subject to appropriate civil penalties.
- (3) Whenever, in the opinion of the department, the condition of or the operation of boilers, pressure vessels, or pressure system required to be inspected by chapter 397, HRS, or any practice, means, method, operation, or process employed or used, is unsafe, or is not properly guarded, or is dangerously placed, its use may be prohibited by the department. An order to that effect shall be posted prominently on the equipment or near the place or condition referred to in the order. The order shall be removed when a determination has been made by an authorized representative of the department that the boilers, pressure vessels or pressure system are safe and the required safeguards or safety devices are provided.
- (4) Pursuant to section 397-4(d)(4), HRS, the department may apply for a restraining order from a circuit court to effect enforcement.
- (5) Pursuant to section 397-4(d)(5), HRS, the director, or an authorized representative, shall have the same powers

possessed by the court respecting administering of oaths, compelling attendance of witnesses, producing documentary evidence, and examining witnesses or causing them to be examined, and may take depositions and certify to official acts.

- (6) Where a condition or practice involving any boiler, pressure vessel, or pressure system required to be inspected by chapter 397, HRS, could reasonably be expected to cause death or serious physical harm, the department shall have the right, independent of any other enforcement powers under this chapter, to:
  - (A) Immediately take steps to obtain abatement by informing the owners, users, contractors, and all persons in harms way of the hazard by meeting, posted notice, or otherwise;
  - (B) Take steps to immediately obtain abatement through direct control or elimination of the hazard if, after reasonable search, the user, owner, contractor, or their representative is not available;
  - (C) Take steps to obtain immediate abatement when the nature and imminency of the danger or hazard does not permit a search for the owner, user, or contractor; and
  - (D) Where appropriate, initiate necessary legal proceedings to require abatement by the owner, user, or contractor.
- (7) The department may prosecute, defend, and maintain actions in the name of the department for the enforcement of the provisions of chapter 397, HRS, including the enforcement of any order issued by it, the appeal of an administrative or court decision, and other actions necessary to enforce chapter 397, HRS. [Eff 7/6/98] (Auth: HRS §397-4) (Imp: HRS §§397-4, 397-6, 397-8)

**§12-220-22 Violations and penalties.** (a) The director may assess all civil penalties provided in this section, giving due respect to the gravity of the violation, the good faith of the owner, user, consultant, contractor, or vendor, and the history of previous violations.

**(b) Violations.**

- (1) Any owner, user, consultant, contractor, or vendor who violates chapter 397, HRS, or any safety standards and codes adopted pursuant to chapter 91, HRS, or who violates or fails to comply with any order made under or by virtue of chapter 397, HRS, or who defaces, displaces, destroys,

damages, or removes without the authority of the department any safety device, safeguard, notice, order, or warning required by chapter 397, HRS, standards, or codes, shall be assessed a civil penalty of not more than \$1,000 for each such violation.

(2) Each day a violation continues shall constitute a separate violation except during an abatement period.

**(c)** Discrepancies and penalties.

(1) Any conditions found not in conformance with applicable standards or codes, adopted pursuant to chapter 91, HRS, shall be regarded as discrepancies and shall be made known to the owner, user, consultant, contractor, or vendor by letter or written "order to correct" or both. All discrepancies shall be satisfactorily resolved as soon as possible. When, in the opinion of the department, a discrepancy constitutes a potentially serious or imminent hazard, it may prohibit the use of the equipment until the condition is abated. Failure to abate unsafe conditions or failure to correct discrepancies within the time prescribed shall be a violation subject to the civil penalties prescribed in this section.

(2) Assessing penalties.

(A) Consideration shall be given to the gravity of the violation. For a violation that could not or probably would not result in serious harm to life or property, the penalty may be reduced by forty per cent.

(B) Consideration shall be given to the good faith of the owner, user, consultant, contractor, or vendor. For immediate correction or for attempts to make corrections or abate hazards that have been thwarted by conditions beyond the control of the owner, user, consultant, contractor, or vendor, the penalty may be reduced by forty per cent.

(C) Consideration shall be given for the history of previous violations. For few or no previous violations by the owner, user, consultant, contractor, or vendor, the penalty may be reduced by twenty per cent.

**(d)** Anyone who knowingly makes a false statement on any document required by chapter 397, HRS, shall, upon conviction, be punished by fine or imprisonment or both. Any evidence suggesting that a false statement may have been made shall be immediately referred to the director, who shall consult with the attorney general for purposes of initiating appropriate action. [Eff 7/6/98] (Auth:

HRS §397-4) (Imp: HRS §397-8)

**§12-220-23 Review and appeal.** (a) Any order of the director shall be final and conclusive against the owner, user, vendor, consultant, or contractor unless a written notice of contest of the order is filed with the director specifying what is being contested within twenty days after receipt of such order.

(b) The owner, user, vendor, consultant, or contractor may petition the director for modification of the abatement requirements in an order, provided the petition is filed no later than the close of the next business day following the date on which abatement is required. Under exceptional circumstances and for good cause shown, the petition may be filed at a later date. The director shall issue an order either affirming or modifying the abatement requirement.

(c) The director shall advise the appeals board upon receipt of notice of contest.

(d) The appeals board shall afford an opportunity for hearing on any notice of contest in accordance with adopted rules of practice and procedure. [Eff 7/6/98] (Auth: HRS §397-4) (Imp: HRS §397-9)

**§12-220-24 Judicial review.** Judicial review of a decision and order of the appeals board may be obtained in the manner provided in chapter 91, HRS, by instituting proceedings in the circuit court of the circuit in which the boilers, pressure vessels, and pressure systems are located. [Eff 7/6/98] (Auth: HRS §397-4) (Imp: HRS §§397-10, 397-91-14)

**§12-220-25 Trade secrets.** Information obtained by the department containing or revealing a trade secret shall be held confidential and access shall be limited to authorized representatives of the director concerned with carrying out chapter 397, HRS, or when relevant, in any proceedings under chapter 397, HRS. [Eff 7/6/98] (Auth: HRS §397-4) (Imp: HRS §397-11)

**§12-220-26 Evidence.** No record or determination of any administrative proceedings under chapter 397, HRS, or any statement or report of any kind obtained or received in connection with the administration or enforcement of chapter 397, HRS, shall be admitted or used, whether as evidence or a discovery, in any civil action growing out of any matter mentioned in the record, determination, statement, or report other than an action for enforcement or review under chapter 397, HRS. [Eff 7/6/98] (Auth: HRS §397-4) (Imp: HRS §397-12)

**§12-220-27 Reporting of accidents.** (a) Whenever an accident

occurs to either a boiler, pressure vessel, or pressure system, the owner, user, or maintenance company shall promptly notify the division by submitting a detailed accident report. For reporting purposes, accident is defined as an occurrence resulting in damage to a boiler, pressure vessel, or pressure system rendering it inoperative or any occurrence resulting in physical injury requiring treatment by a physician.

(b) Whenever an accident occurs which results in loss of life or inpatient hospitalization, the owner, user, or maintenance company shall promptly notify the division by telephone or messenger within forty-eight hours, and neither the boiler, pressure vessel, or pressure system or any of their parts, shall be removed or disturbed before permission has been given by the department except for the purpose of saving human life and limiting consequential damage.

(c) Additional reports, in writing or otherwise, may be required by the director. [Eff 7/6/98] (Auth: HRS §397-4) (Imp: HRS §397-4)

**§12-220-28 Suspending operation.** (a) If, upon inspection, a boiler, pressure vessel, or pressure system is found to be unsafe to operate, the inspector shall notify the department and the permit to operate may be suspended by the department.

(b) Any person, firm, partnership, or corporation causing any unsafe boiler, pressure vessel, or pressure system to continue to be operated shall be subject to the penalty provided in the law. [Eff 7/6/98] (Auth: HRS §397-4) (Imp: HRS §397-4)

**§12-220-29 Condemned boilers and pressure vessels.** (a) Any boiler or pressure vessel having been inspected and declared unfit for further service by an authorized inspector shall be stamped on either side of the State number with the letters "XXX" as shown by the following facsimile, which will designate a condemned boiler or pressure vessel:

XXX HAW 000-00 XXX

(b) Any person, firm, partnership, or corporation using or offering for sale a condemned boiler or pressure vessel for operation within Hawaii shall be subject to the penalties provided by the Law. [Eff 7/6/98] (Auth: HRS §397-4) (Imp: HRS §397-4)

**§12-220-30 Reinstallation of boilers, pressure vessels, or pressure systems.** When a standard boiler, pressure vessel, or pressure system located in Hawaii is to be moved outside the jurisdiction for temporary use or repair, application shall be made

by the owner or user to the department for permission to reinstall the boiler, pressure vessel, or pressure system in the jurisdiction. When a nonstandard boiler, pressure vessel, or pressure system is removed, it shall not be reinstalled within Hawaii. [Eff 7/6/98] (Auth: HRS §397-4) (Imp: HRS §397-4)

**§12-220-31 Application of State serial numbers**. (a) Upon completion of the installation of a boiler or pressure vessel or at the time of the initial permit inspection of an existing installation, each boiler or pressure vessel shall be stamped by the inspector with a State serial number, consisting of letters and figures to be not less than 5/16 inch in height and arranged:

For power boilers	HAW 0000 - YEAR
For heating boilers	HHB 0000 - YEAR
For pressure vessels	HPV 0000 - YEAR

Heating boilers assigned State serial numbers prior to January 1984 had the prefix HAW. NO. 0000-YEAR. In each case, the year shall be a part of the number. Blocks of numbers shall be assigned to each inspector by the department.

(b) All boilers and pressure vessels constructed of cast iron, or of material of a thickness that it should not be stamped, shall have securely attached a corrosion resistant label plate containing the required manufacturer's stamping. The State serial number shall be stamped on the label plate, or it shall be applied by means of an adhesive backed labeling tape on or near the label plate. [Eff 7/6/98] (Auth: HRS §397-4) (Imp: HRS §397-4)

**§12-220-32 Notification of transfer and location**. (a) The contractor, erector, seller, vendor, or any person responsible for the transfer of ownership shall notify the department in writing within thirty calendar days giving the address, name, and phone number of the purchaser for any boiler, pressure vessel or pressure system except those exempted by section 12-220-16(a) sold in this jurisdiction. For new installations of boilers, pressure vessels, or pressure systems, a copy of the manufacturers data report and the approximate installation date shall be provided.

- (1) The owner of any existing boiler, pressure vessel, or pressure system operated in the State, except boilers, pressure vessels, and pressure systems exempted by section 12-220-16(a) and those for which an operating permit has been issued, shall report the location thereof to the department.

- (2) The owner of any boiler, pressure vessel, or pressure system, except those exempted by section 12-220-16(a) to be installed in the State, shall notify the department in writing of the proposed location of the installation stating whether the boiler, pressure vessel, or pressure system is new, reinstalled, or secondhand. If it is a reinstalled or secondhand boiler, pressure vessel, or pressure system, the owner shall, in addition to the above information, give the Hawaii number or otherwise identify the boiler, pressure vessel, or pressure system. The owner of a portable boiler or pressure vessel shall not be required to report each change in location unless the change is from one island to another.
- (3) When any boiler, pressure vessel, or pressure system, regulated by this chapter, is removed from service, the owner shall notify the department of the removal. The notification shall be written and shall state the disposition made or to be made of the boiler, pressure vessel, or pressure system. The notification shall occur prior to the relocation or operation of the boiler, pressure vessel, or pressure system. [Eff 7/6/98] Auth: HRS §397-4) (Imp: HRS §397-4)72.

**§12-220-33 Records.** Records shall be maintained by the boiler inspection branch for the purpose of preserving reports of inspections, witnessing of test and accident investigations, correspondence, prints, and memoranda for all objects inspected pursuant to these rules. These reports of inspections, witnessing of test and accident investigations, correspondence, prints, and memoranda shall be maintained for a period of not less than six years. [Eff 7/6/98] (Auth: HRS §397-4) (Imp: HRS §397-4)

**§12-220-34 Variances.** (a) In cases of practical difficulties, undue hardships, or new developments, an owner, user, contractor, or vendor may apply for a variance from any boiler safety standard. The application must be in writing, clearly stating the standard from which a variance is sought, the conditions, means, practices, methods, operations, or processes proposed to be used, together with drawings, specifications, and other supporting data. The director may issue an order for a variance if what is proposed will provide a substantially equivalent level of safety to that provided by the standard.

- (b) All variances granted pursuant to this chapter shall have only a future effect. The director may decline to entertain an application for variance on a subject or



- issue for which a citation has been issued to the owner or user involved and a proceeding on the citation or a related issue concerning a proposed penalty or period of abatement is pending.
- (c) Every final action granting a variance shall be published in a paper of general circulation within thirty calendar days following the action. The cost of such publication shall be borne by the petitioning party. Every final action shall specify the alternative to the standard involved which the particular variance permits.
  - (d) If an application filed pursuant to section 12-220-34(a) does not conform to the applicable section, the director may deny the application. Notice of the denial of an application shall be given to the applicant within thirty calendar days. A notice of denial shall include a brief statement of the grounds for the denial. A denial of an application shall be without prejudice to the filing of another application. If a variance is not acted upon within ninety calendar days, it shall be deemed granted.
  - (e) Requests for hearing on applications denied. Any affected owner/user may file with the director, in triplicate, a request for a hearing on the application. A request for a hearing filed pursuant to this subsection shall include:
    - (1) A concise statement of facts showing how the owner/user would be affected by the relief for which the application was made;
    - (2) A specification of any statement or representation in the application which is denied, and a concise summary of the evidence that would be adduced in support of each denial; and
    - (3) Any views or arguments on any issue of fact or law presented.
  - (f) Notice of hearing.
    - (1) Upon request for a hearing pursuant to this chapter, the director shall serve reasonable notice of hearing.
    - (2) A notice of hearing shall include:
      - (A) The time, place and nature of the hearing;
      - (B) The legal authority under which the hearing is to be held;
      - (C) A specification of issues of fact and law; and
      - (D) A designation of a hearing examiner appointed by the director to preside over the hearing.
    - (3) A copy of a notice of hearing shall be referred to the hearing examiner together with the original application and any written request for a hearing. [Eff 12/6/82; am

12/8/86; am and ren §12-220-1 and comp 12/6/90; am 7/6/98;  
am 6/19/00] (Auth: HRS §397-4) (Imp: HRS §397-4)

**TABLE 220-1**

**BOILER AND PRESSURE VESSEL INSTALLATION REPAIR  
or ALTERATION PERMIT FEES  
July 1, 1996**

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Installation Permits are based on the following per object:

Power boilers . . . . .	\$ 190
Heating boilers . . . . .	150
Pressure vessels. . . . .	135
Sterilizers and steam kettles fired and electrically heated . . . . .	120
Review of shops and facilities for the issuance of National Board or ASME Certificates of Authorization . . . . .	1,060
Repair and/or Alteration Application Fee.	100

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**TABLE 220-2  
EXAMINATION AND LICENSE FEES  
July 1, 1996**

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Boiler inspector's certificate of competency examination . . . . .	\$ 250
Boiler inspector's Hawaii Commission initial	50
Boiler inspector's Hawaii Commission renewal	35

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TABLE 220-3

**INTERNAL AND EXTERNAL INSPECTIONS FEES**  
**July 1, 1996**

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Power boilers	
Without manholes . . . . .	\$ 80
With manholes but not over 4,000 square feet	
heating surface . . . . .	100
Over 4,000 square feet heating surface but not	
over 10,000 square feet heating surface . . .	200
Over 10,000 square feet heating surface . . . .	250
Heating boilers	
Hot water supply . . . . .	70
Steam and water heating without manholes . . .	80
All with manholes . . . . .	90
Pressure vessels - Fees are based on the product	
of the overall length and the maximum width or	
diameter of the vessel expressed in square feet	
Fifty square feet area or less . . . . .	45
For each additional 100 square feet	
or portion thereof . . . . .	45
Maximum inspection fee for any single vessel.	250
Sterilizers and steam kettles	
Fired and electrically heated . . . . .	45
Review of shops and facilities for the issuance of	
National Board or ASME Certificates	
for their renewal. . . . .	1,060
Report and permit processing . . . . .	10

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[Eff 7/6/98] (Auth: HRS §397-4) (Imp: HRS §397-4)